

TEST REPORT

Product Name : FL-M100

Brand Mark : N/A

Model No. : LJC-US-SSDLG4-Y6C12W9A55022-22-11

Extension model : GL50581

Report Number: BLA-EMC-202207-A0703

FCC ID : 2AQUQGE50581

Date of Sample Receipt : 2022/7/1

Date of Test : 2022/7/1 to 2022/7/21

Date of Issue : 2022/7/21

Test Standard : 47 CFR Part 1.1307, Part 1.1310

Test Result : Pass

Jozu Bhe Zhong Prepared for:

GLOBE ELECTRIC COMPANY INC. 150, ONEIDA, MONTREAL, QUEBEC, CANADA, H9R 1A8

Prepared by:

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Approved by:

Review by:

Date:







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REPORT REVISE RECORD

Version No.	Date	Description
00	2022/7/21	Original



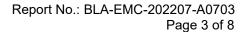




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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 1.1310	CFR 47 Part 1.1310	CFR 47 Part 1.1310	PASS





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2 GENERAL INFORMATION

Applicant	GLOBE ELECTRIC COMPANY INC.	
Address	150, ONEIDA, MONTREAL, QUEBEC, CANADA, H9R 1A8	
Manufacturer	GLOBE ELECTRIC COMPANY INC.	
Address	150, ONEIDA, MONTREAL, QUEBEC, CANADA, H9R 1A8	
Factory GLOBE ELECTRIC COMPANY INC.		
Address 150, ONEIDA, MONTREAL, QUEBEC, CANADA, H9R 1A8		
Product Name FL-M100		
Test Model No.	LJC-US-SSDLG4-Y6C12W9A55022-22-11	
Extension model GL50581		
Remark All above models are identical in the same PCB layout, interior structure electrical circuits. The differences are model name for commercial purpose.		

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V1.3	
Software Version	0073	

BLE

Operation Frequency:	2402MHz-2480MHz	
Modulation Type:	GFSK	
Channel Spacing:	MHz	
Number of Channels:	40	
Antenna Type:	PCB Antenna	
Antenna Gain:	3dBi(Provided by the applicant)	

2.4G WIFI

	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz		
	302.11b: DSSS (CCK, DQPSK, DBPSK) 302.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Channel Spacing:	5MHz		
Milmhor of Channols.	802.11b/g/n(HT20):11 802.11n(HT40):7		
Antenna Type:	PCB Antenna		
Antenna Gain:	3dBi(Provided by the applicant)		



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4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

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No tests were sub-contracted.



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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 LIMITS

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

			1.73	
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6 6
(B) Limits	for General Populati	on/Uncontrolled Exp	osure	
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2	30 30
300–1500 1500–100,000	27.0		f/1500 1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm Pd id the limit of MPE, 1 mW/cm2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.2 TEST PROCEDURE

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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5.3 EUT RF EXPOSURE EVALUATION

Antenna Gain: 3dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.995 in linear

scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

BLE:

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
middle	2442	2.148	1.640	0.0007	1.0	PASS

2.4G WIFI(802.11b):

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
lowest	2412	13.748	23.703	0.0094	1.0	PASS

Note: Refer to report No. BLA-EMC-202207-A0701/02 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation Requirement

----END OF REPORT----

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